AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Currently amended) A mobile station of a cellular telecommunications system, the mobile station comprising:

an integrated phase locked loop for generating output frequencies;

a frequency control unit for providing a frequency control word for the phase locked loop, according to which frequency control word an output frequency is generated; and a tuning unit for providing a synchronized tuning word for the phase locked loop, the tuning unit being configured to output the synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word, The mobile station of claim 1, wherein the phase locked loop includes an integrated charge pump for generating an output current proportional to the synchronized tuning word; and

the tuning unit is configured to provide a synchronized tuning word for the charge pump in order to tune the gain of the charge pump.

- 5. (Cancelled)
- 6. (Currently amended) A mobile station of a cellular telecommunications system, the mobile station comprising:

an integrated phase locked loop for generating output frequencies;

a frequency control unit for providing a frequency control word for the phase locked loop, according to which frequency control word an output frequency is generated; and a tuning unit for providing a synchronized tuning word for the phase locked loop, the tuning unit being configured to output the synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word, The mobile station of claim 1, wherein the tuning unit is configured to output the synchronized tuning word in parallel format to the phase locked loop.

7. (Previously presented) A mobile station of a cellular telecommunications system, the mobile station comprising:

an integrated phase locked loop for generating output frequencies;

a frequency control unit for providing a frequency control word for the phase locked loop, according to which frequency control word an output frequency is generated; and

a tuning unit for providing a synchronized tuning word for the phase locked loop, the tuning unit being configured to output the synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word wherein the tuning unit includes:

a buffer register for receiving a tuning word in a serial format, the buffer register configured to convert the tuning word from the serial format into parallel format;

a setting register connected to the buffer register and the phase locked loop, the setting register configured to receive the tuning word from the buffer register in the parallel format;

the setting register is configured to receive an enabling command, the enabling command enabling the output of the synchronized tuning word to the phase locked loop; and

the setting register is configured to output the synchronized tuning word into the phase locked loop, the output being enabled by the enabling command. 8. (Previously presented) A mobile station of a cellular telecommunications system, the mobile station comprising:

an integrated phase locked loop for generating output frequencies;

a frequency control unit for providing a frequency control word for the phase locked loop, according to which frequency control word an output frequency is generated; and

a tuning unit for providing a synchronized tuning word for the phase locked loop, the tuning unit being configured to output the synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word,

wherein the frequency control unit and the tuning unit are configured to provide a shared control register for the frequency control word and the synchronized tuning word and wherein the shared control register is configured to output the frequency control word and the synchronized tuning word simultaneously.

9. (Previously presented) A mobile station of a cellular telecommunications system, the mobile station comprising:

an integrated phase locked loop for generating output frequencies;

a frequency control unit for providing a frequency control word for the phase locked loop, according to which frequency control word an output frequency is generated;

a tuning unit for providing a synchronized tuning word for the phase locked loop, the tuning unit being configured to output the synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word; and

a control arrangement configured to provide a first timing signal for the frequency control unit, the first timing signal timing the output of the frequency control word and the control arrangement is configured to provide a second timing signal for the tuning unit, the second timing signal timing a synchronous output of the synchronized tuning word.

10. (Original) The mobile station of claim 9, wherein the control arrangement is configured to switch off a synchronous output of the tuning word.

11. (Cancelled)

12. (Cancelled)

13. (Currently amended) A controlling method comprising:

outputting a frequency control word into a phase locked loop of a mobile station of a cellular telecommunications system, according to which frequency control word an output frequency is generated; and

A method according to claim 11, further including outputting athe synchronized tuning word in parallel format into the phase locked loop in synchronization with the output of the frequency control word.

14. (Previously presented) A controlling method comprising:

outputting a frequency control word into a phase locked loop of a mobile station of a cellular telecommunications system, according to which frequency control word an output frequency is generated;

receiving a tuning word in a serial format into a buffer register;

converting the serial format into parallel format;

receiving the tuning word from the buffer register by a setting register in parallel format;

receiving an enabling command by the setting register, the enabling command enabling the output of the synchronized tuning word to the phase locked loop; and

outputting the synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word, the output being enabled by the enabling command.

15. (Cancelled)

16. (Previously presented) A controlling method comprising:

outputting a frequency control word into a control register, according to which frequency control word an output frequency is generated;

outputting a synchronized tuning word into the control register in synchronization with the output of the frequency control word; and

outputting the frequency control word and the synchronized tuning word simultaneously from the control register to a phase locked loop of a mobile station of a cellular telecommunications system.

17. (Previously presented) A controlling method comprising:

outputting a frequency control word into a phase locked loop of a mobile station of a cellular telecommunications system, according to which frequency control word an output frequency is generated;

outputting a synchronized tuning word into the phase locked loop in synchronization with the output of the frequency control word;

providing a first timing signal for timing the output of the frequency control word; and

providing a second timing signal for timing the synchronous output of the synchronized tuning word.